



NavWeld

Intelligent Welding Procedure System



NavWeld is a secure, Internet-based application that assists the user in developing Procedure Qualification Records (PQR), Welding Procedure Specifications (WPS) and Welder Performance Qualification Records (WPQ) that meet the requirements of various U.S. Navy specifications.

NavWeld contains the requirements for the following combination of welding and brazing processes, and specifications.

Arc Welding

- NAVSEA S9074-AQ-GIB-010/248
- NAVSEA S9074-AR-GIB-010/278
- MIL-STD-1689A
- NAVSEA T9074-AD-GIB-010/1688
- ABS/ NVR - 2007

Brazing

- NAVSEA 0900-LP-001-7000

Stud Welding

- NAVSEA S9074-AQ-GIB-010/248
- NAVSEA S9074-AR-GIB-010/278
- MIL-STD-1689A
- NAVSEA T9074-AD-GIB-010/1688
- ABS/ NVR - 2007

Resistance Welding

- American Welding Society D17.2

FEATURES

NavWeld automatically determines:

- ✓ Essential Elements for PQR, WPS & WPQ,
- ✓ Non-Destructive Tests for PQR & WPQ
- ✓ Destructive Tests for PQR & WPQ,
- ✓ Qualified Ranges of the Essential Elements for PQR & WPQ, and
- ✓ Requirements of the Fabrication Document for PQR & WPS
(e.g., Preheat & Interpass Temperatures, Base & Filler Combinations, etc.).

Additional features include:

- ✓ Entries are marked as required or optional, and documents are marked as complete or incomplete,
- ✓ Automatically create a WPS based on the qualified ranges of a PQR,
- ✓ Ability to track Vision Tests, Workmanship Training and Welding History for Welders & Brazers, and
- ✓ Ability to search for Welders & Brazers based on their qualifications,

BENEFITS

Benefits of utilizing **NavWeld** include the following:

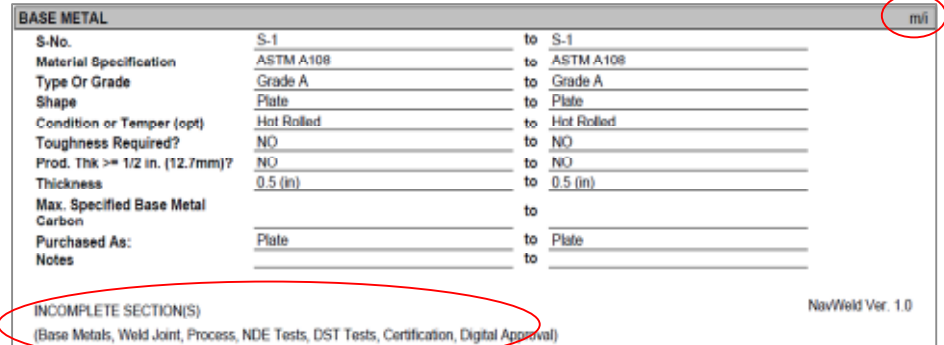
- ✓ Shipyards can significantly reduce the time and cost associated with reviewing vendor's welding procedures by reducing the number of incomplete and unacceptable submissions,
- ✓ Shipyards can reduce production delays caused by unacceptable vendor's procedures, and
- ✓ Vendors can reduce the time and cost required to develop, test, and submit welding procedures.

NavWeld is hosted on a secure dedicated server. Authorized Users enter their User Name and Password to access only their company's information. The "strong" password is encrypted and is only known by the User.

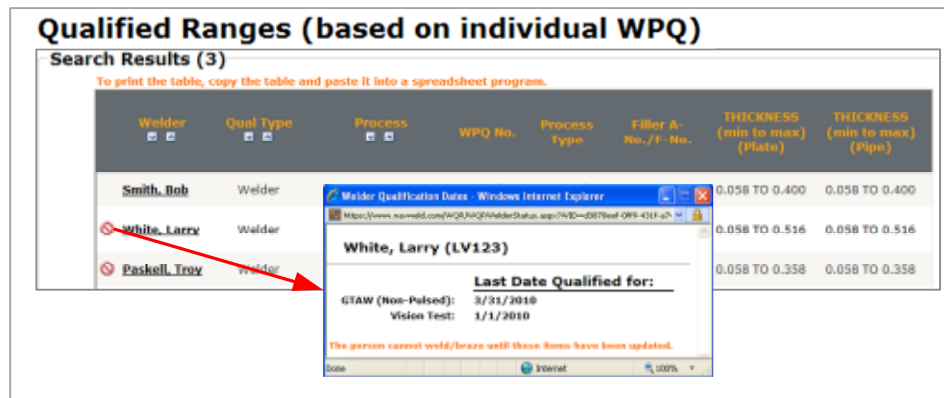


The following features assist the Reviewer:

- ✓ standard print format,
- ✓ items not selected from standard lists are indicated by the letter "m" in each section header,
- ✓ incomplete sections are indicated by the letter "I" in the section header and in the footer.

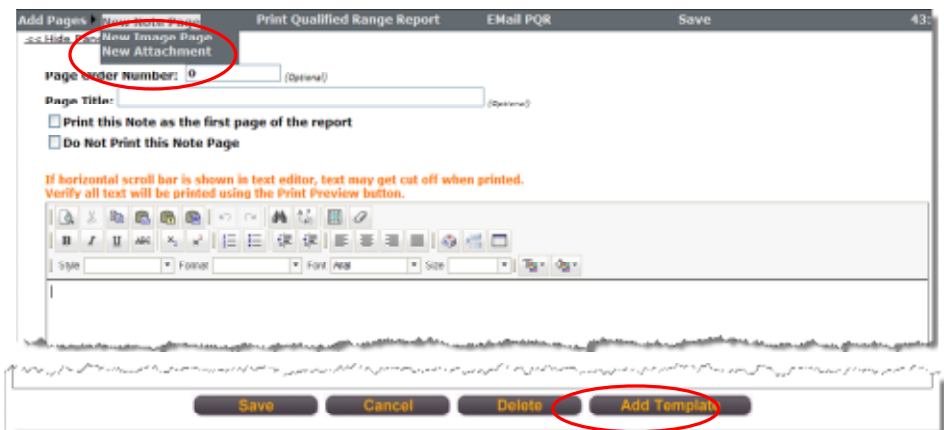


The user can search for qualified welders based on their qualifications. NavWeld also tracks their Vision Tests, Workmanship Training and Welding History.



Additional pages of Notes and/or Images can be added. Also documents (e.g., test reports) can be attached.

User can create custom Templates for Notes pages.



PQRs & WPSs can be digitally certified. If a change is made, the digital certification becomes invalid.

